

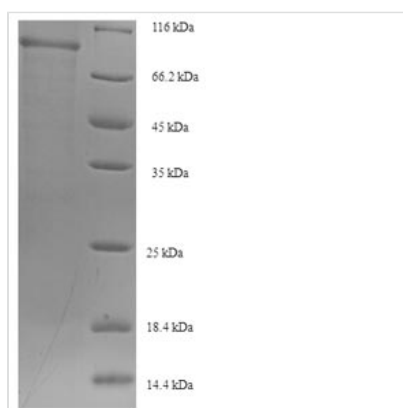


Recombinant Human Sorting nexin-1 (SNX1)

Product Code	CSB-EP623817HU
Relevance	Involved in several stages of intracellular trafficking. Interacts with mbranes containing phosphatidylinositol 3-phosphate (PtdIns(3P)) or phosphatidylinositol 3,5-bisphosphate (PtdIns(3,5)P2) . Acts in part as component of the retromer mbrane-deforming SNX-BAR subcomplex. The SNX-BAR retromer mediates retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN) and is involved in endosome-to-plasma mbrane transport for cargo protein recycling. The SNX-BAR subcomplex functions to deform the donor mbrane into a tubular profile called endosome-to-TGN transport carrier (ETC) (Probable). Can sense mbrane curvature and has in vitro vesicle-to-mbrane rodeling activity . Involved in retrograde endosome-to-TGN transport of lysosomal enzyme receptors (IGF2R, M6PR and SORT1) and Shiginella dysenteria toxin stxB. Plays a role in targeting ligand-activated EGFR to the lysosomes for degradation after endocytosis from the cell surface and release from the Golgi . Involvent in retromer-independent endocytic trafficking of P2RY1 and lysosomal degradation of protease-activated receptor-1/F2R . Promotes KALRN- and RHOG-dependent but retromer-independent mbrane rodeling such as lamellipodium formation; the function is dependent on GEF activity of KALRN . Required for endocytosis of DRD5 upon agonist stimulation but not for basal receptor trafficking .
Abbreviation	Recombinant Human SNX1 protein
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q13596
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	MASGGGGCSASERLPPFPGLEPESEGAAGGSEPEAGDSDTGEDIFTGAAV VSKHQSPKITTSLLPINNGSKENGIHEEQDQEPQDLFADATVELSLDSTQNNQK KVLAKTLISLPPQEATNSSKPQPTYEELEEEQEDQFDLTVGITDPEKIGDGMN AYVAYKVTTQTSLPLFRSKQFAVKRRFSDFLGLYEKLSEKHSQNGFIVPPPPEK SLIGMTKVKGKEDSSSAEFLEKRRAALERYLQRIVNHPTMLQDPDVREFLEK EELPRAVGTQTLSGAGLLKMFNKATDAVSKMTIKMNESDIWFEEKLQEVECEE QRLRKLHAVVETLVNHRKELALNTAQFAKSLAMLGSSSEDNTALSRALSQLAEV EEKIEQLHQEQANNDFFLLAELLSYIRLLAIVRAAFDQRMKTWQRWQDAQAT LQKKREAEARLLWANKPDKLQQAQKDEILEWESRVVTQYERDFERISTVVRKEVI RFEKEKSKDFKNHVIKYLETLLYSQQLAKYWEAFLPEAKAIS
Research Area	Signal Transduction
Source	E.coli



Target Names	SNX1
Protein Names	Recommended name: Sorting nexin-1
Expression Region	1-522aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-SUMO-tagged
Mol. Weight	75.1kDa
Protein Length	Full Length

Image


(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.